

Title (en)

Method for detecting aSyn-specific antibodies in a biological sample

Title (de)

Verfahren zur Erkennung von aSyn-spezifischen Antikörpern in einer biologischen Probe

Title (fr)

Procédé pour la détection d'anticorps A β -spécifiques dans un échantillon biologique

Publication

EP 2787348 A1 20141008 (EN)

Application

EP 13162107 A 20130403

Priority

EP 13162107 A 20130403

Abstract (en)

Disclosed is a method for detecting aSyn-specific antibodies in a biological sample, comprising the following steps: - contacting the sample with aSyn-comprising-aggregates or with particles having aSyn-comprising-aggregate like surfaces and allowing the aSyn-specific antibodies to bind to the aSyn-comprising-aggregates, and - detecting the aSyn-specific antibodies bound to the aSyn-comprising-aggregates by a single particle detection technique, preferably by fluorescence activated cell sorting (FACS).

IPC 8 full level

G01N 33/564 (2006.01)

CPC (source: EP US)

G01N 33/564 (2013.01 - EP US); **G01N 33/6854** (2013.01 - US); **G01N 33/6896** (2013.01 - US); **G01N 2800/2814** (2013.01 - EP US)

Citation (applicant)

- EP 2012068494 W 20120920
- WO 2010128139 A1 20101111 - UNIV GOETTINGEN GEORG AUGUST [DE], et al
- JANKOVIC J. ET AL., J. NEUROL. NEUROSURG. PSYCHIATR., vol. 79, no. 4, 2008, pages 368 - 76
- GILMAN ET AL., NEUROLOGY, vol. 71, no. 9, 26 August 2008 (2008-08-26), pages 670 - 6
- JANKOVIC J, J. NEUROL. NEUROSURG. PSYCHIATR., vol. 79, no. 4, 2008, pages 368 - 76
- BROOKS DJ ET AL., J. NUCL. MED., vol. 51, no. 4, 2010, pages 596 - 609
- CUMMINGS JL ET AL., BRAIN, vol. 134, no. 11, 2011, pages 3146 - 3166
- DUBOIS ET AL., LANCET NEUROL., vol. 9, 2010, pages 1118 - 1127
- LEBOUVIER ET AL., PLOS ONE, vol. 5, no. 9, 2010, pages E12728
- SHANNON ET AL., MOV. DISORD., vol. 27, no. 2012, pages 709 - 715
- BORGHI ET AL., NEUROSCIENCE LETTERS, vol. 287, no. 1, 2000, pages 65 - 67
- JOURNAL OF NEURAL TRANSMISSION, vol. 113, no. 10, 2006, pages 1435 - 1439
- LEE ET AL., EXPERIMENTAL NEUROLOGY, vol. 204, no. 2, 2007, pages 583 - 588
- QIAO-XIN LI ET AL., EXPERIMENTAL NEUROLOGY, vol. 204, no. 2, 2007, pages 583 - 588
- EL-AGNAF ET AL., FASEB J., vol. 20, 2006, pages 419 - 425
- SMITH, PLOS ONE, vol. 7, no. 12, 2012, pages E52285
- WANG ET AL., SCI TRANSL MED., vol. 15, no. 4, February 2012 (2012-02-01), pages 121
- NEUROLOGY, vol. 58, 2002, pages 1435 - 1436
- PAPACHRONI ET AL., JOURNAL OF NEUROCHEMISTRY, vol. 101, 2007, pages 749 - 756
- GRUDEN ET AL., J NEUROIMMUNOL, vol. 233, 2011, pages 221 - 227
- YANAMANDRA ET AL., PLOS ONE, vol. 6, 2011, pages E18513
- GRUDEN ET AL., NEUROIMMUNOMODULATION, vol. 19, 2012, pages 334 - 342
- NEUROLOGY, vol. 80, no. 2, 8 January 2013 (2013-01-08), pages 169 - 75
- BESONG-AGBO ET AL., PLOS ONE, vol. 7, no. 12, 2012, pages E52285
- HAMPEL ET AL., NAT. REV. DRUG DISCOV., vol. 9, 2010, pages 560 - 574
- SHAHANI ET AL., J. NEUROSCI., vol. 26, 2006, pages 6103 - 6114
- HANGER ET AL., TRENDS IN MOL. MED., vol. 15, 2009, pages 112 - 119
- BINDER ET AL., LUPUS, vol. 15, 2005, pages 412 - 421
- JANES ET AL., NAT. BIOTECHNOL., vol. 29, 2011, pages 602 - 604
- CANNON ET AL., ANAL. BIOCHEM., vol. 328, 2004, pages 67 - 75
- MISSAILIDIS ET AL., METHODS IN MOLECULAR BIOLOGY, vol. 248, 2003, pages 431 - 441
- ANDERSON; WEBB, BMC BIOTECHNOLOGY, vol. 11, 2011, pages 125
- LINDHAGEN-PERSSON ET AL., PLOS ONE, vol. 5, 2010, pages E13928

Citation (search report)

- [XY] WO 2010069603 A1 20100624 - NEURIMMUNE THERAPEUTICS AG [CH], et al
- [Y] WO 9714028 A2 19970417 - LUMINEX CORP [US], et al
- [XY] EP 2366714 A1 20110921 - RENTSCHLER HOLDING GMBH & CO KG DR [DE]
- [Y] KIM SPELLS ET AL: "Specificity of HLA antibodies detected with HLA antigen-coated polystyrene beads.", 29TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR HISTOCOMPATIBILITY AND IMMUNOGENETICS; MIAMI BEACH, FL, USA; OCTOBER 28-NOVEMBER 01, 2003, 1 January 2003 (2003-01-01), pages S113, XP055070270
- [XY] PAPACHRONI KATERINA K ET AL: "Autoantibodies to alpha-synuclein in inherited Parkinson's disease", JOURNAL OF NEUROCHEMISTRY, WILEY INTERSCIENCE, NEW YORK, NY, US, vol. 101, no. 3, 1 May 2007 (2007-05-01), pages 749 - 756, XP002530228, ISSN: 0022-3042, DOI: 10.1111/J.1471-4159.2006.04365.X
- [Y] APETRI ET AL: "Secondary Structure of alpha-Synuclein Oligomers: Characterization by Raman and Atomic Force Microscopy", JOURNAL OF MOLECULAR BIOLOGY, ACADEMIC PRESS, UNITED KINGDOM, vol. 355, no. 1, 6 January 2006 (2006-01-06), pages 63 - 71, XP005197985, ISSN: 0022-2836, DOI: 10.1016/J.JMB.2005.10.071
- [Y] LI QINGYOU ET AL: "Improvement of a low pH antigen-antibody dissociation procedure for ELISA measurement of circulating anti-A[beta] antibodies", BMC NEUROSCIENCE, BIOMED CENTRAL, LONDON, GB, vol. 8, no. 1, 20 March 2007 (2007-03-20), pages 22, XP021022581, ISSN: 1471-2202, DOI: 10.1186/1471-2202-8-22

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)

EP 2787348 A1 20141008; AR 095994 A1 20151125; AU 2014247129 A1 20151029; BR 112015025208 A2 20170718;
CA 2908607 A1 20141009; CN 105247368 A 20160113; CN 105247368 B 20180427; DK 2981824 T3 20180115; EP 2981824 A1 20160210;
EP 2981824 B1 20171122; ES 2657093 T3 20180301; JP 2016514842 A 20160523; JP 6416871 B2 20181031; KR 20150137114 A 20151208;
PL 2981824 T3 20180430; TW 201514496 A 20150416; US 2016054333 A1 20160225; US 9964547 B2 20180508;
WO 2014161879 A1 20141009

DOCDB simple family (application)

EP 13162107 A 20130403; AR P140101473 A 20140403; AU 2014247129 A 20140402; BR 112015025208 A 20140402;
CA 2908607 A 20140402; CN 201480029965 A 20140402; DK 14714706 T 20140402; EP 14714706 A 20140402; EP 2014056588 W 20140402;
ES 14714706 T 20140402; JP 2016505803 A 20140402; KR 20157031401 A 20140402; PL 14714706 T 20140402; TW 103112523 A 20140403;
US 201414782078 A 20140402